

Amendments to the Claims

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

Listing of Claims

1. (currently amended) A prosthetic foot comprising:

a longitudinally extending foot keel having a forefoot portion, a raised midfoot portion and a hindfoot portion;

a resilient, monolithically formed shank extending upwardly from the foot keel, by way of an anterior facing continuous convexly curved surface which extends over at least most of the length of the shank and has with-increasing radius of curvature, to form a lower-an ankle joint area and a curvilinear prosthetic part of a leg extending substantially upward above the ankle joint area, the shank having a proximal portion and an upper-resilient-shank-terminal portion for connection with a lower extremity prosthetic structure secured to a person's residual limb;

wherein the lower-portion ankle joint area and the upper-terminal portion of the prosthetic part of a leg formed by the shank extending upwardly from the foot keel are anterior facing convexly curved and have dorsiflexion and plantarflexion capabilities in response to a ground reaction motion force created in a person's gait in the prosthetic foot; and

wherein the shank and at least the hindfoot portion of the foot keel are monolithically formed.

2. (original) The prosthetic foot according to claim 1, wherein the entire foot keel and the shank are monolithically formed.

3. (withdrawn) The prosthetic foot according to claim 1, wherein the shank and a posterior part of the foot keel are monolithically formed, an anterior part of the foot keel being joined to said posterior part to form said foot keel.

4. (canceled)

5. (canceled)

6. (currently amended) The prosthetic foot according to claim 1, further comprising an adapter connected to the ~~upper terminal proximal~~ portion of the shank for use in connecting the prosthetic foot to a lower extremity prosthetic structure secured to a person's residual limb.

7. (currently amended) The prosthetic foot according to claim 1, wherein ~~the shank extends upward in a substantially curvilinear manner in the direction of the longitudinal extent of the foot above the ankle joint area to form the upper resilient shank terminal portion~~anterior facing continuous convexly curved surface extends the entire length of the shank.

8. (canceled)

9. (original) The prosthetic foot according to claim 1, wherein the monolithically formed shank and foot keel are formed of metal.

10. (currently amended) A prosthesis comprising:
a foot having a forefoot portion, a raised midfoot portion and a hindfoot portion;
an ankle;
an elongated, upstanding shank above the ankle;
wherein the ankle, shank, and at least the hindfoot portion of the foot are monolithically formed as a resilient member for improving the dynamic response of the prosthesis, the resilient member ~~in the area of the ankle and shank including a lower portion and an upper terminal portion which are being~~ anterior facing convexly curved ~~over at least most of the length of resilient member above the foot, and wherein the radius of curvature of the anterior facing convexly curved resilient member increases progressively as the resilient member extends upwardly from the foot.~~

11. (original) The prosthesis according to claim 10, wherein the foot includes a longitudinally extending foot keel which is monolithically formed with the ankle and shank as said resilient member.

12. (withdrawn) The prosthesis according to claim 10, wherein the ankle, shank and a posterior part of the foot keel are monolithically formed, an anterior part of the foot being joined to said posterior part to form said foot.

13. (canceled)

14. (canceled)

15. (currently amended) The prosthesis according to claim 10, further comprising an adapter connected to ~~said upper terminal portion~~ a proximal portion of the resilient member for use in connecting the prosthesis to a lower extremity prosthetic socket on a person's leg stump.

16. (original) The prosthesis according to claim 10, wherein the shank above the ankle is substantially curvilinear in the direction of the longitudinal extent of the foot.

17. (canceled)

18. (original) The prosthesis according to claim 10, wherein the resilient member is formed of metal.

19. - 22. (canceled)

23. (previously presented) The prosthetic foot according to claim 1, wherein the monolithically formed shank and foot keel are formed of resilient material.

24. (previously presented) The prosthesis according to claim 10, wherein the resilient member is formed of plastic.

25. (new) The prosthetic foot according to claim 1, wherein the width of the resilient shank in the frontal plane in the prosthetic foot is greater than the thickness of the shank in the sagittal plane throughout the entire length of the shank such that the shank, in response to a ground reaction force created in the prosthetic foot in gait, flexes substantially in the longitudinal direction of the foot keel for storing, releasing and directing energy in a longitudinal direction to improve dynamic response of the prosthetic foot.

26. (new) The prosthesis according to claim 10, wherein the width of the resilient member in the frontal plane in the prosthesis is greater than the thickness of the resilient member in the sagittal plane throughout the entire length of the resilient member such that the resilient member, in response to a ground reaction force created in the prosthesis in gait, flexes substantially in a longitudinal direction of the foot, for storing, releasing and directing energy in a longitudinal direction to improve dynamic response of the prosthesis.